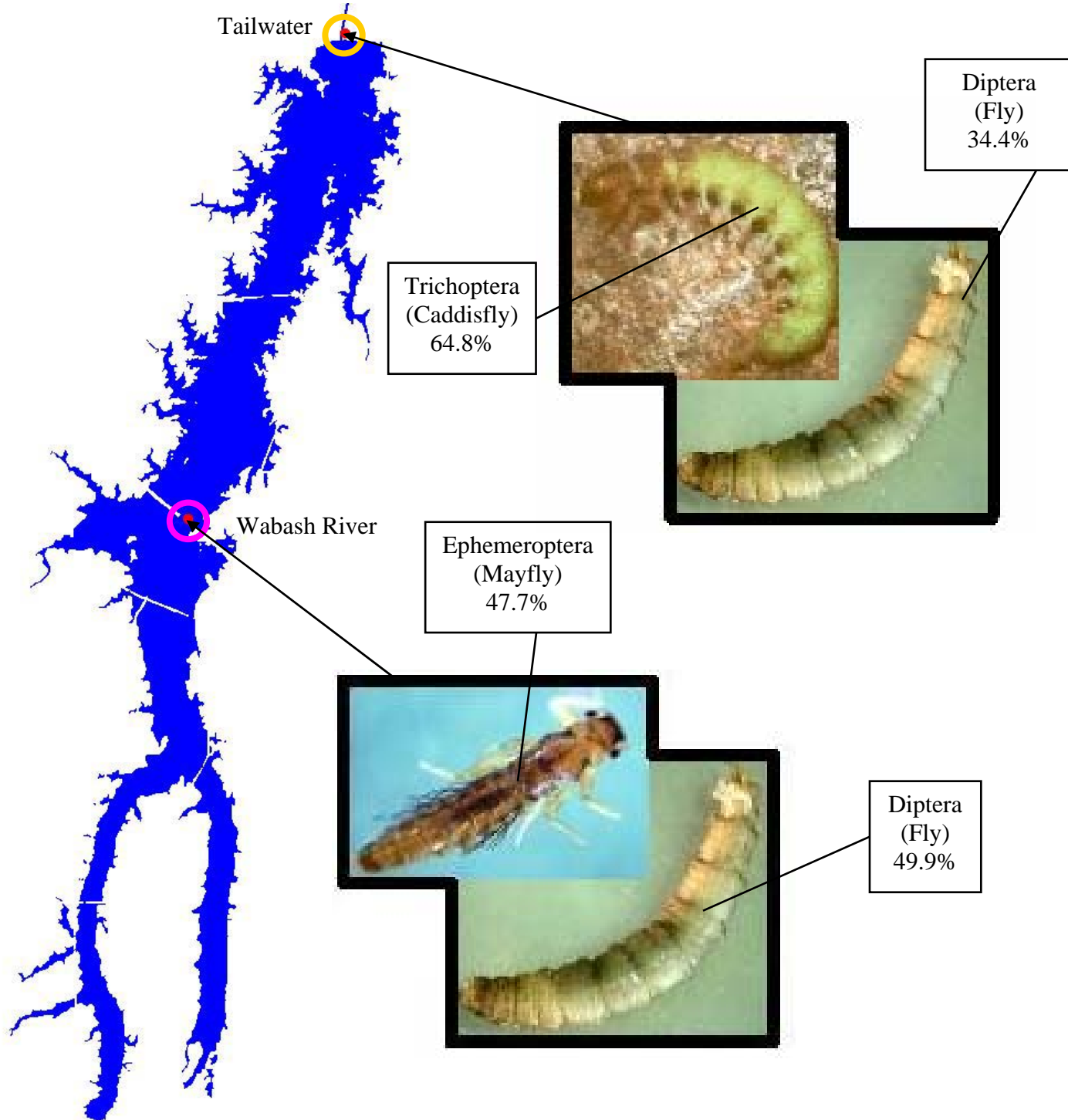


Aquatic Insects' Community Structure
J. E. Roush Lake Analysis
August 23, 2004

Relative abundance of dominant taxa found at each of the sites shown below.



Community Metrics *	J. E. Roush Lake	
	Tailwater	Wabash
Collection Date	8/23/04	8/23/04
Total Number of Taxa	22	29
% Contribution of Dominant Taxa	91	92
Modified Hilsenhoff Biotic Index (0, good – 10, bad)	5.14	5.20
Shannon-Wiener Index	1.46	1.31
Number of Ephemeroptera Taxa	2	5
% Ephemeroptera Taxa (Abundance)	1	46
Number of Plecoptera Taxa	0	0
% Plecoptera Taxa (Abundance)	0	0
Number of Trichoptera Taxa	4	3
% Trichoptera Taxa (Abundance)	63	1
Number of EPT Taxa	6	8
% EPT Taxa	63	47
Number of Dipteran Taxa	10	13
% Dipteran Taxa	33	48
Number of Chironomid Taxa	7	11
% Chironomid Taxa	25	4
Number of Tanytarsini Taxa	1	2
% Tanytarsini Taxa	1	1
Number of Orthocladiinae Taxa	2	2
% Orthocladiinae Taxa	1	0
% Cricotopus + Chironomus/Total Chiron.	0	0
Number of Dipteran Taxa – Tanytarsini and other Non-Insect Taxa	14	18
% Dipteran Taxa - Tanytarsini and other Non-Insect Taxa	34	51
Ratio of EPT to Chiron. Abundance	2.52	10.69
Percent Tolerant Organisms	0	3
Numbers of Individuals / m ²	27,619	4,746
* Based on 4 replicate surber samples Substrate sampled – small stones		

5 Most Abundant Taxa on the Tailwater

1. Cheumatopsyche sp. (Trichoptera) 59.7%
2. Polypedilum flavum (Diptera) 20.4%
3. Simulium sp. (Diptera) 8.4%
4. Ceratopsyche morosa group sp. (Trichoptera) 3%
5. Thienemannimyia group sp. (Diptera) 1.9%

5 Most Abundant Taxa on Wabash

1. Baetis intercalaris (Ephemeroptera) 45.8%
2. Simulium sp. (Diptera) 45.3%
3. Polypedilum illinoense group sp. (Diptera) 1.8%
4. Baetis flavistriga (Ephemeroptera) 1.4%
5. Polypedilum flavum (Diptera) 1.2%